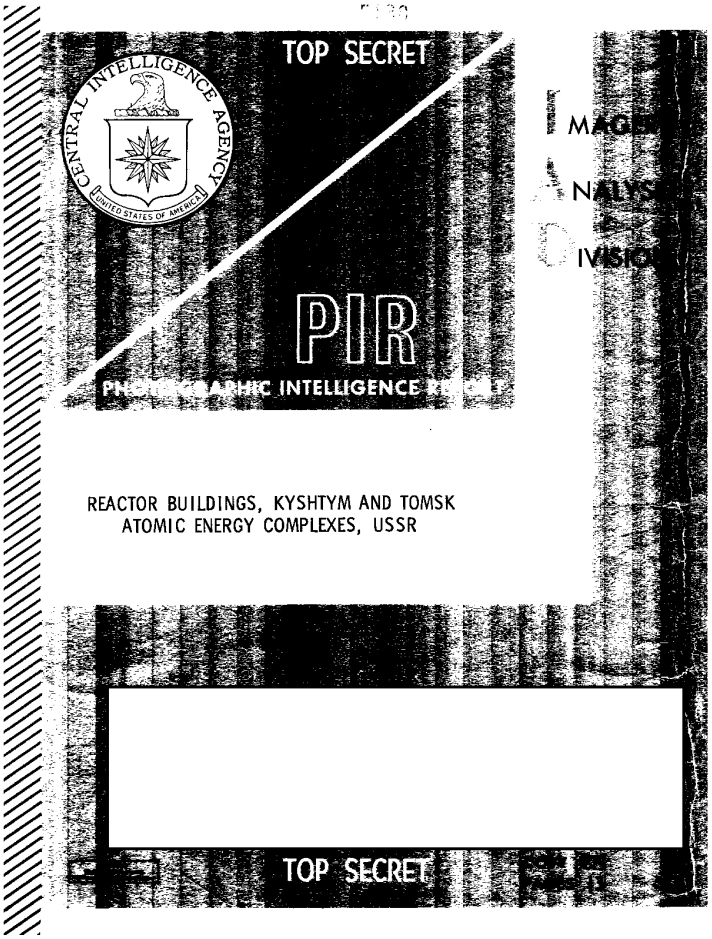
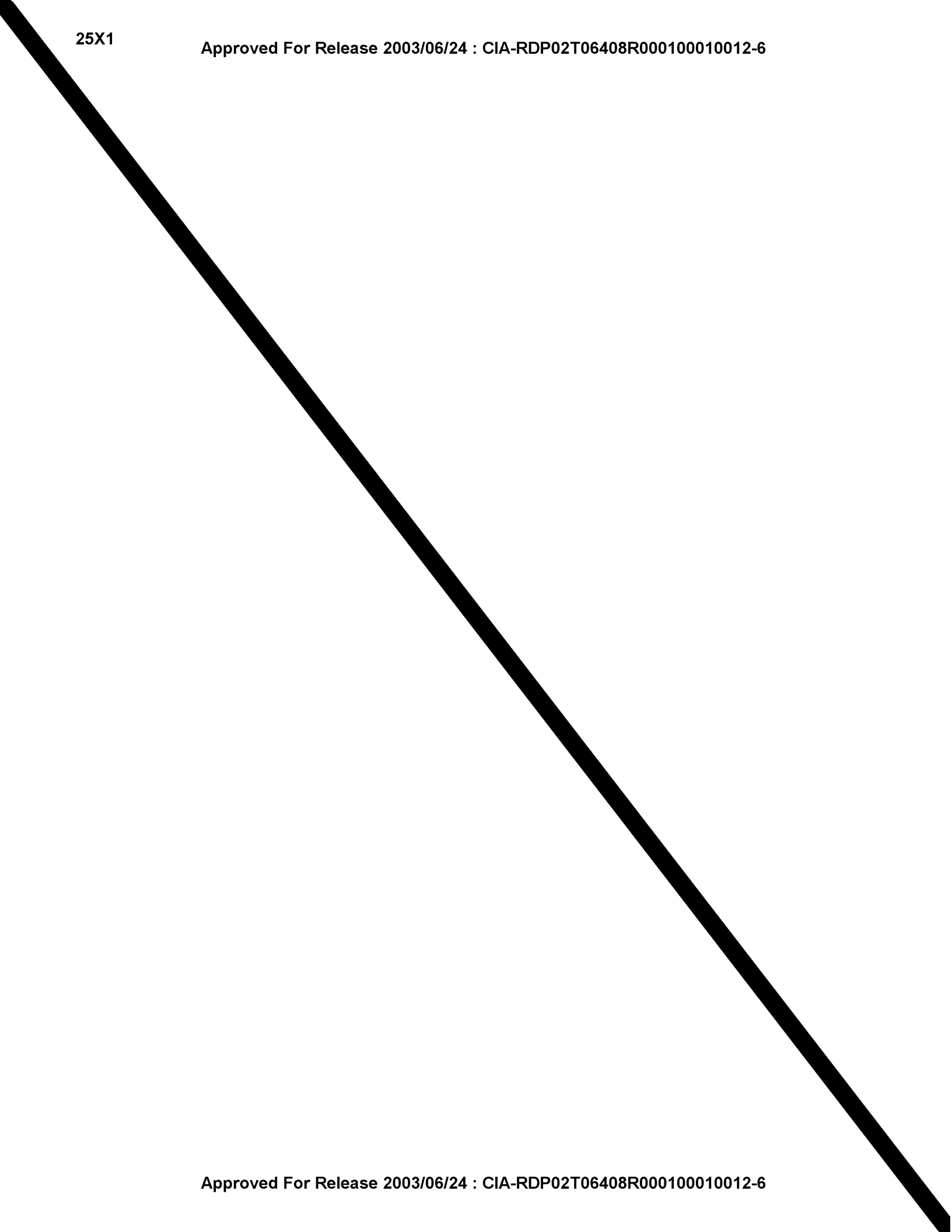


25X1

Declass Review by
NIMA/DOD



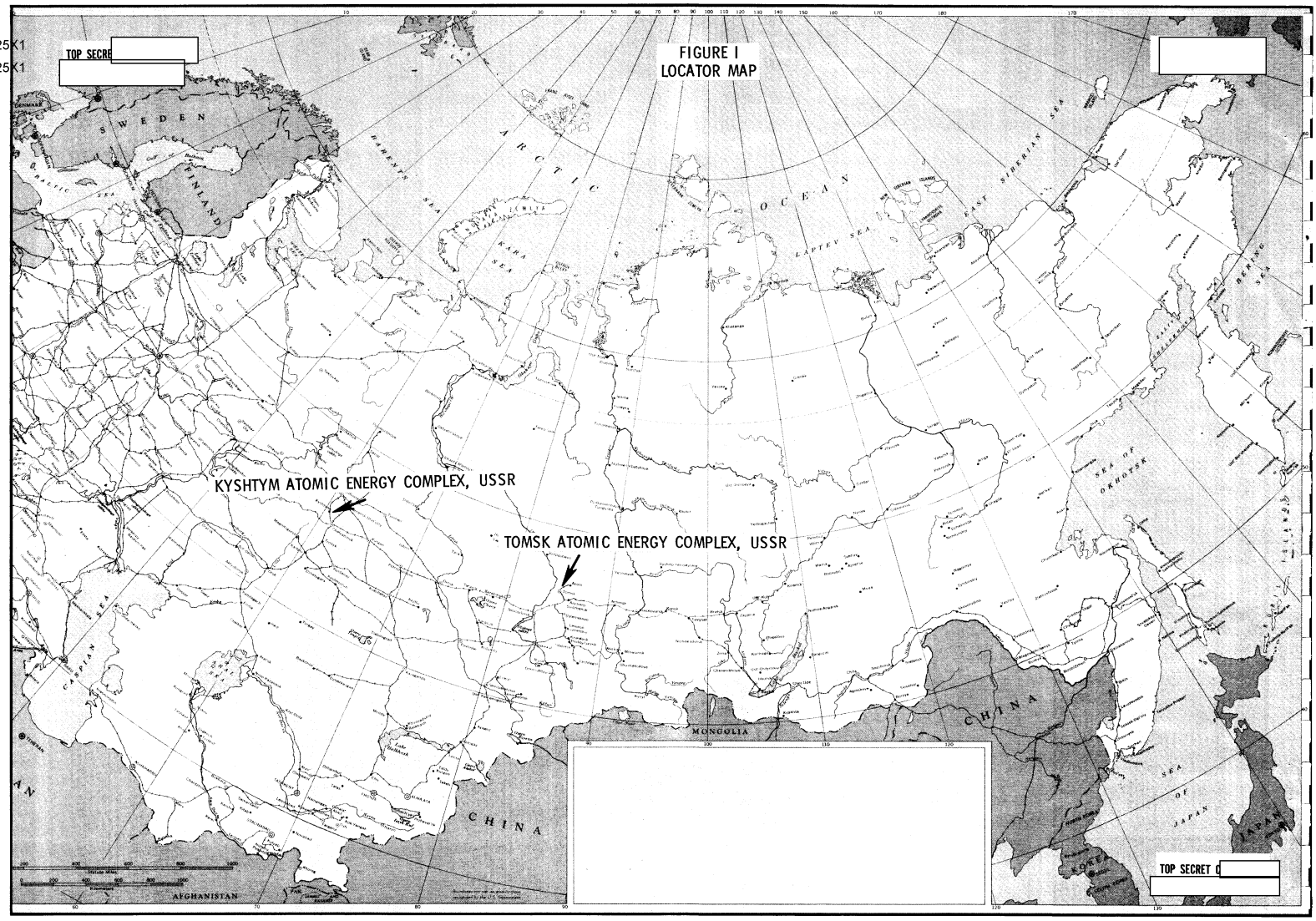
Approved For Release 2003/06/24 : CIA-RDP02T06408R000100010012-6

25X1
25X1

TOP SECRE

FIGURE I
LOCATOR MAP

25X1



TOP SECRET

25X1
25X1

REACTOR BUILDINGS, KYSHTYM AND TOMSK ATOMIC ENERGY COMPLEXES, USSR

INTRODUCTION

Detailed measurements and perspective drawings have been made of ten buildings at the Kyshtym (55-59N 60-43E) and Tomsk (56-36N 84-54E) Atomic Energy Complexes. These drawings include all four reactor buildings at Tomsk and Reactor Buildings I-A, I-B, II-A, and II-B+ at Kyshtym. Buildings 10 and 19 in Kyshtym Reactor Area I were also studied and are included in this report, but their functions could not be identified. Annotated photo enlargements of Kyshtym (Figure 2) and Tomsk (Figure 8) are included for orientation purposes.

All measurements have been made by the NPIC Technical Intelligence Division, with the exception of those shown with an asterisk. These measurements were made by the CIA/IAD project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data. The NPIC/TID measurements are considered to be accurate within ± 10 feet horizontally and ± 10 feet or ± 10%, whichever is greater, vertically for the Kyshtym sketches. Accuracy of the Tomsk NPIC/TID measurements is ± 5 feet or ± 2%, whichever is greater, horizontally and ± 10 feet or ± 10%, whichever is greater, vertically.

Kyshtym Atomic Energy Complex

25X1 25X1 [redacted] Missions [redacted] were the primary sources of detail for the Kyshtym perspectives, and both of these missions are generally of good quality. Even though coverage on each of these two missions is characterized by certain limiting factors, together they provide a good view of most of the buildings. Good quality 25X1 [redacted] missions were also utilized as an aid in their interpretation. The results of this interpretation, as illustrated in the perspective drawings, are considered to be quite reliable; however, Building 19 (Figure 5) in Reactor Area I is an exception to this statement. This building is so much in doubt that only an artist's concept of its appearance can be presented at this time. Coverage from 25X1 Mission [redacted] was too dark to reveal details of the building, and details were also 25X1 obscured by snow and shadows on Mission [redacted] Large scale summer coverage is needed to clarify the configuration of this structure.

Tomsk Atomic Energy Complex

25X1 Coverage from [redacted] Mission [redacted] was utilized for measurements of the 25X1 Tomsk reactor buildings. Mission [redacted] also cover the complex; 25X1 however, the reactor areas are almost 100% cloud-covered on [redacted] does not provide stereo coverage and cloud shadow obscures much detail in Reactor 25X1 Area I, while Reactor Area II is partially cloud covered. [redacted] missions of good quality were used to help in the interpretation of the Tomsk buildings, but the cover- 25X1 age from Mission [redacted] is excellent quality so that it is the primary source of information. A 1958 ground photo of Reactor Building 2 in Reactor Area I, and U-2 25X1 Mission [redacted] were used for detailed interpretation. Even though the 25X1 image quality of Mission [redacted] is excellent, it is also single-frame coverage. The lack of large scale stereo coverage was the only handicap in interpreting the small details necessary for perspective drawings. The roof configuration of the reactor building in Reactor Area II (Figure 12), for example, is believed to be essentially correct, but tone changes on the roof may also suggest other possibilities. Good, large-scale, stereo coverage is needed to completely resolve this question.

REFERENCES

[redacted] 25X1

DOCUMENTS

NPIC. R-248/63. Reactor Area I, Kyshtym Atomic Energy Complex, USSR, June 1963, October 1963. (TOP SECRET [redacted]) 25X1

NPIC. R-281/63. Reactor Area II, Kyshtym Atomic Energy Complex, USSR, June 1963, November 1963. (TOP SECRET [redacted]) 25X1

NPIC. R-255/64. Atomic Energy Complex, Tomsk, USSR, February 1964, April 1964. (TOP SECRET [redacted]) 25X1

REQUIREMENT

C-SI5-82, 794

CIA/IAD PROJECT

30113-6

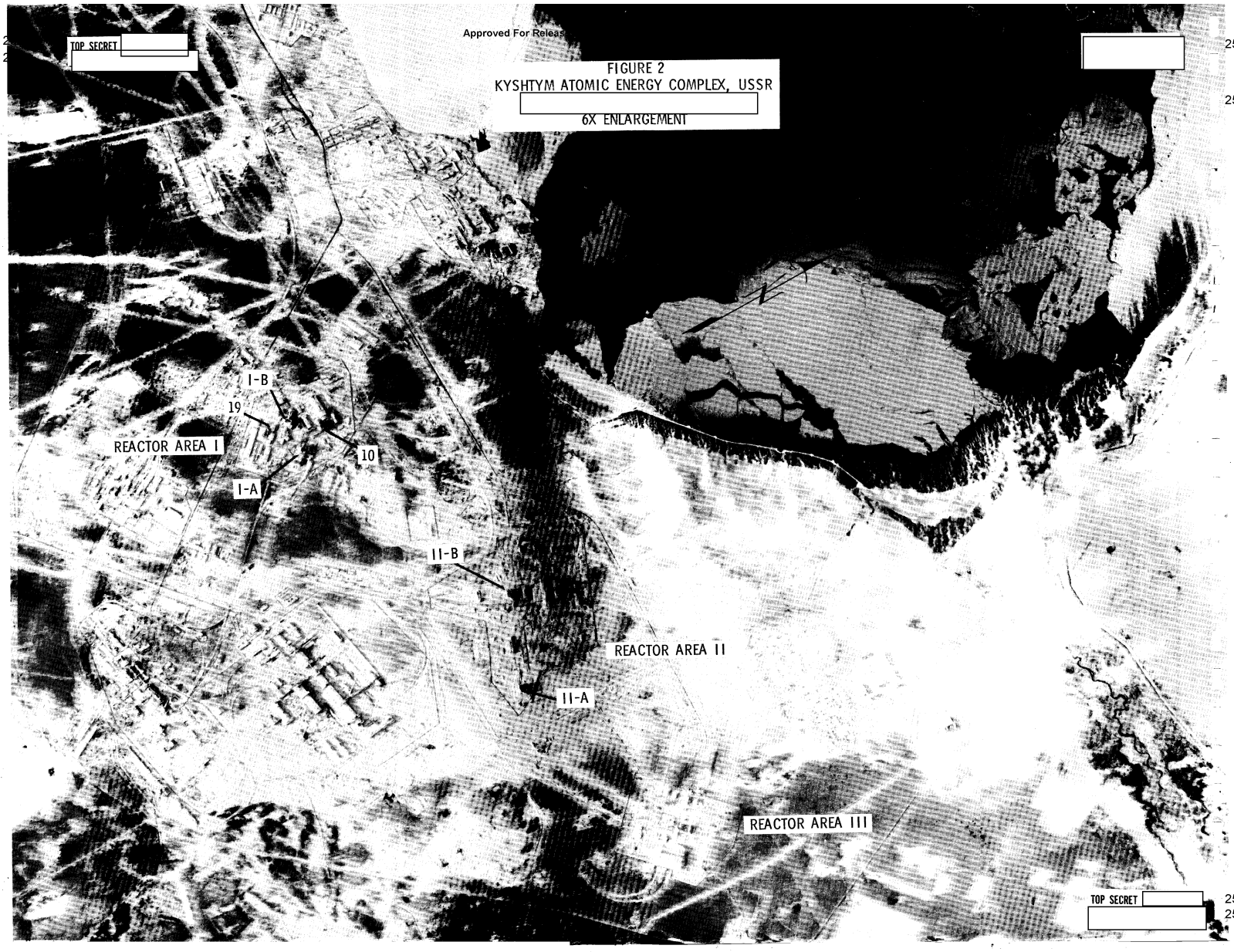
+ All building designations are taken from NPIC/R-248/63, NPIC/R-281/63 and NPIC/R-255/64.

TOP SECRET [redacted]

25X1

FIGURE 2
KYSHTYM ATOMIC ENERGY COMPLEX, USSR
[redacted]
6X ENLARGEMENT

25X1



TOP SECRET [redacted]

25X1
25X1

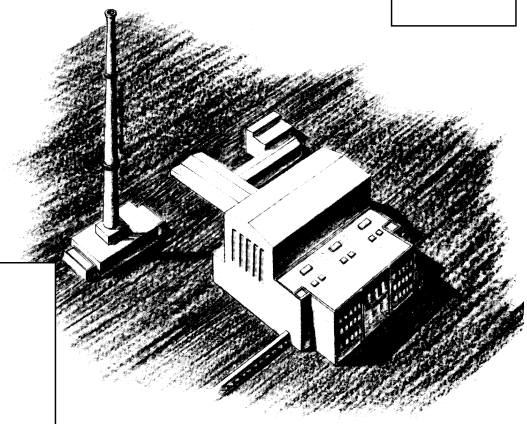
25X1
25X1

TOP SECRET

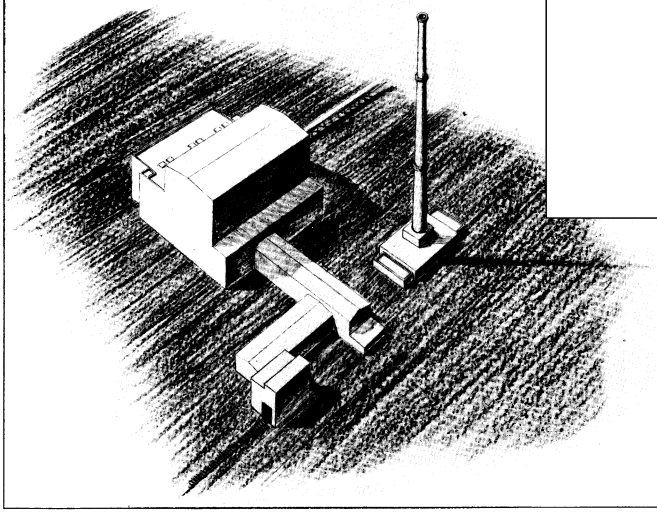
25X1

FIGURE 3

REACTOR BUILDING I-A
KYSHTYM ATOMIC ENERGY COMPLEX, USSR



25X1



TOP SECRET

25X1
25X1

25X1
25X1

TOP SECRET

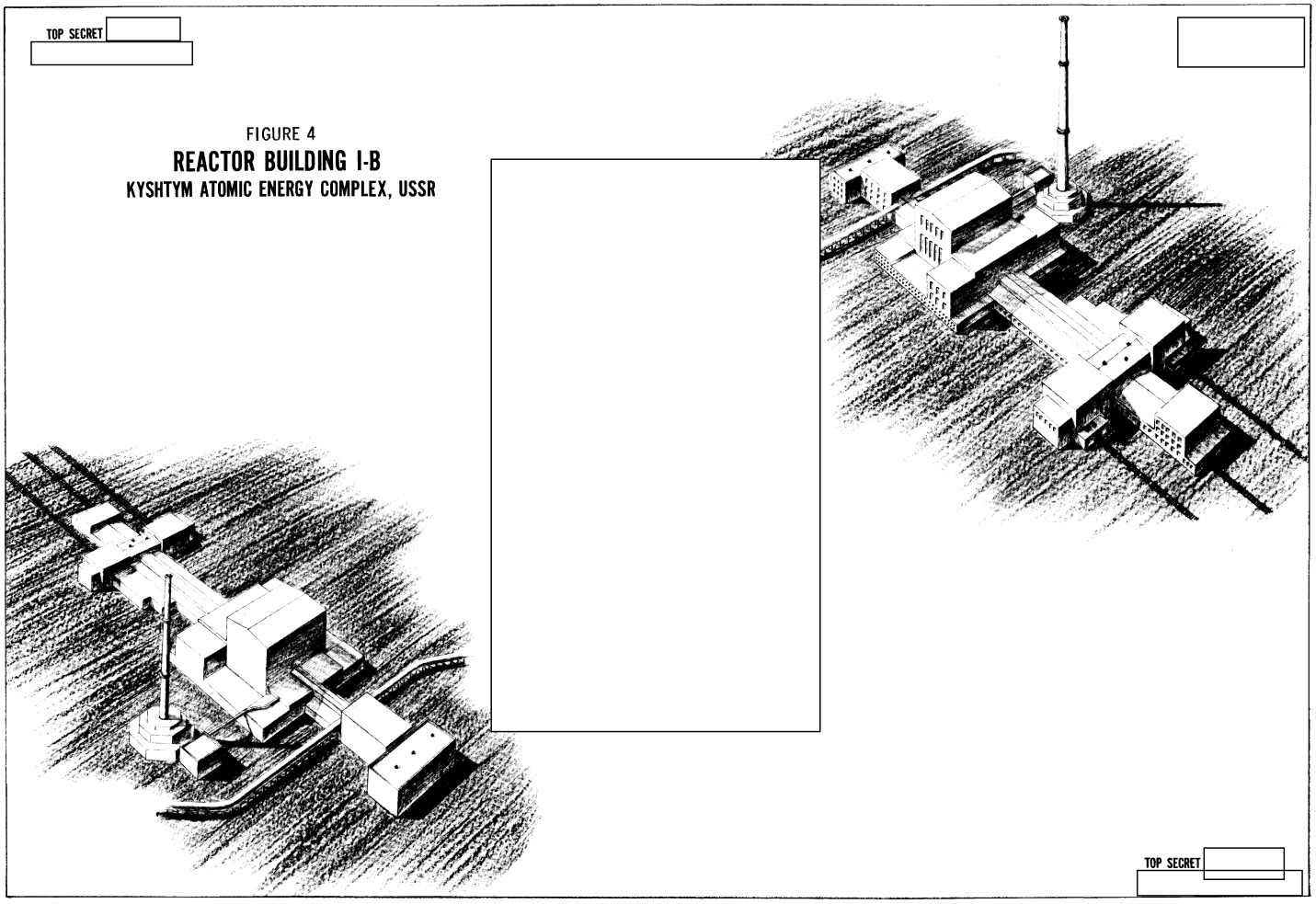
25X1

25X1

FIGURE 4

REACTOR BUILDING I-B

KYSHTYM ATOMIC ENERGY COMPLEX, USSR

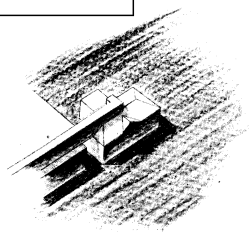


25X1
25X1

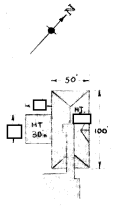
TOP SECRET

FIGURE 5

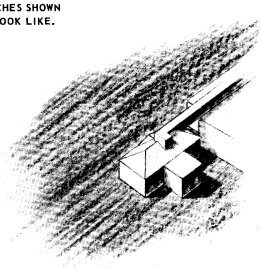
TOP SECRET

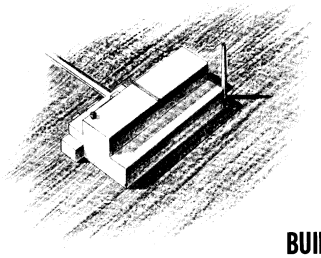


BUILDING 19, REACTOR AREA I
KYSHTYM ATOMIC ENERGY COMPLEX, USSR

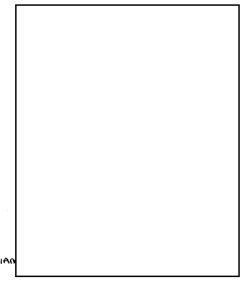


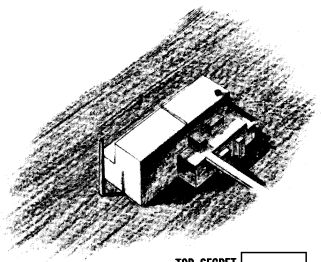
QUALITY AND SHADOWS OF PHOTOGRAPHY MAKE AN ACCURATE PRESENTATION OF THIS BUILDING IMPOSSIBLE. THE SKETCHES SHOWN ARE AN ARTISTS CONCEPT OF WHAT THIS BUILDING MAY LOOK LIKE.





BUILDING 10, REACTOR AREA I
KYSHTYM ATOMIC ENERGY COMPLEX, USSR



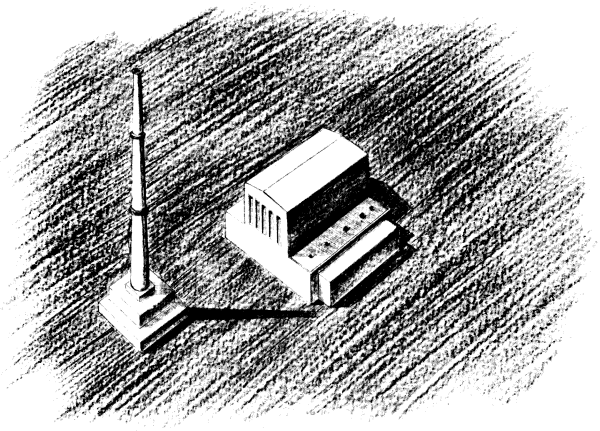


TOP SECRET

25X1

TOP SECRET

25X1
25X1



25X1

STACK 248' FROM TOP OF BUILDING - 25'± DIAMETER AT BASE

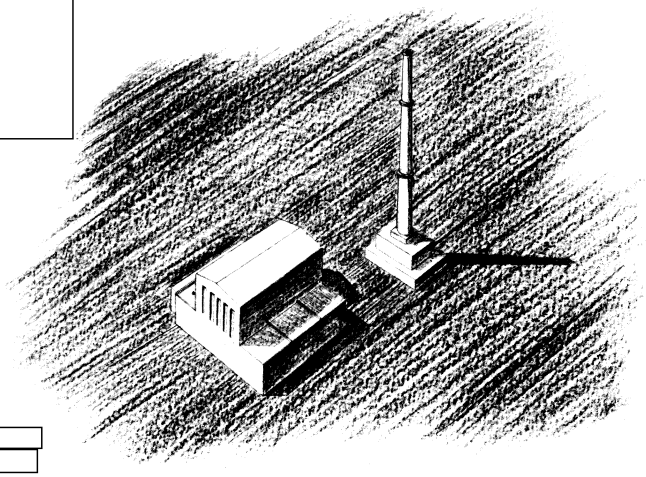
N

25X1

FIGURE 6

REACTOR BUILDING II-A

KYSHTYM ATOMIC ENERGY COMPLEX, USSR

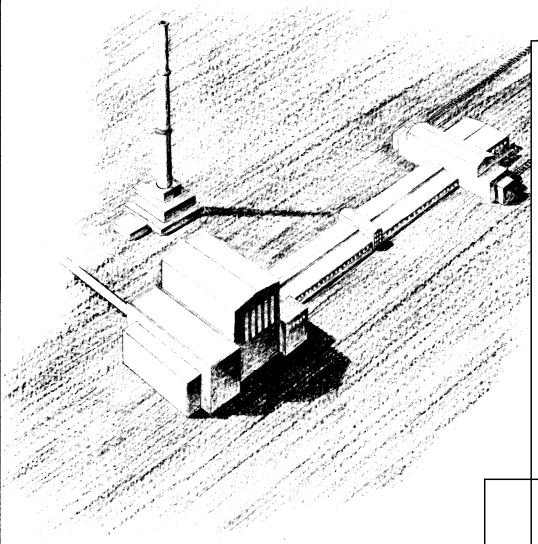


25X1

TOP SECRET

25X1

TOP SECRET



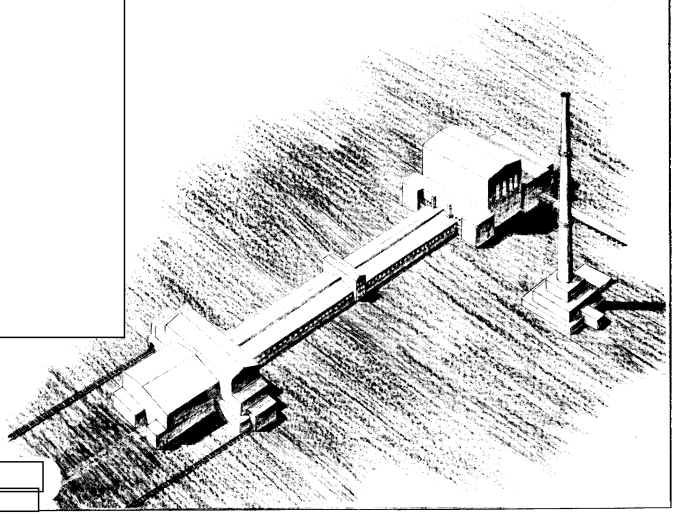


FIGURE 7

REACTOR BUILDING II-B

KYSHTYM ATOMIC ENERGY COMPLEX, USSR

TOP SECRET

FIGURE 8
TOMSK ATOMIC ENERGY COMPLEX, USSR
7X ENLARGEMENT

TOP SECRET

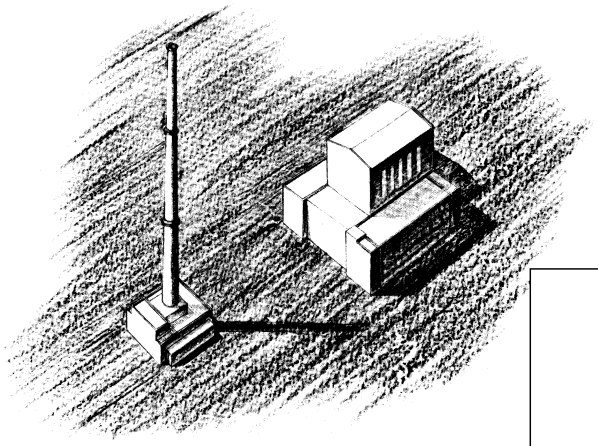
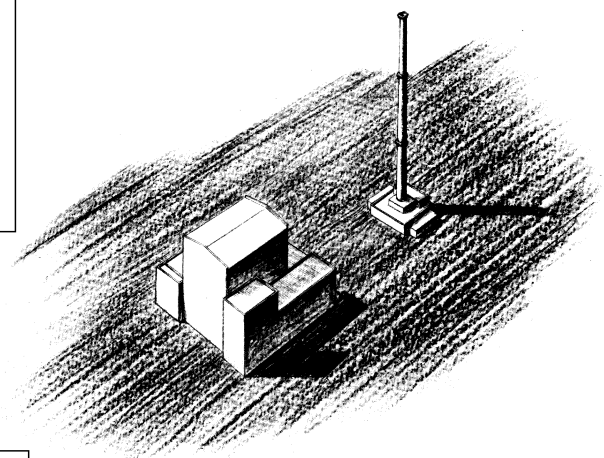


FIGURE 9

REACTOR BUILDING 1, REACTOR AREA I

TOMSK ATOMIC ENERGY COMPLEX, USSR



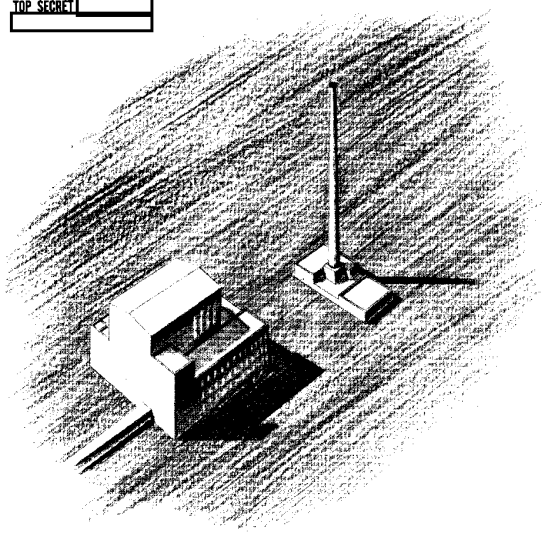
TOP SECRET

25X1

25X1
25X1

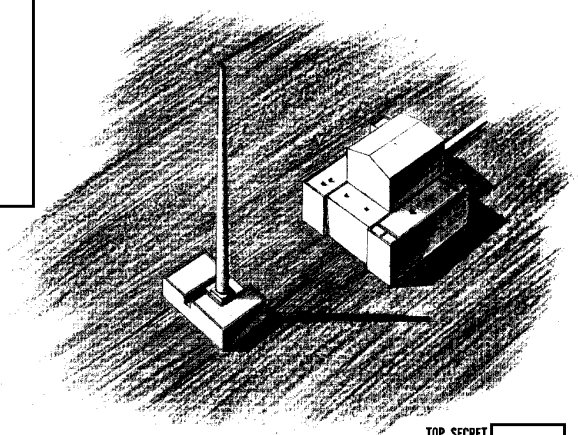
TOP SECRET

FIGURE 10



REACTOR BUILDING 2, REACTOR AREA I
TOMSK ATOMIC ENERGY COMPLEX, USSR

25X1



TOP SECRET

25X1
25X1

25X1
25X1

TOP SECRET

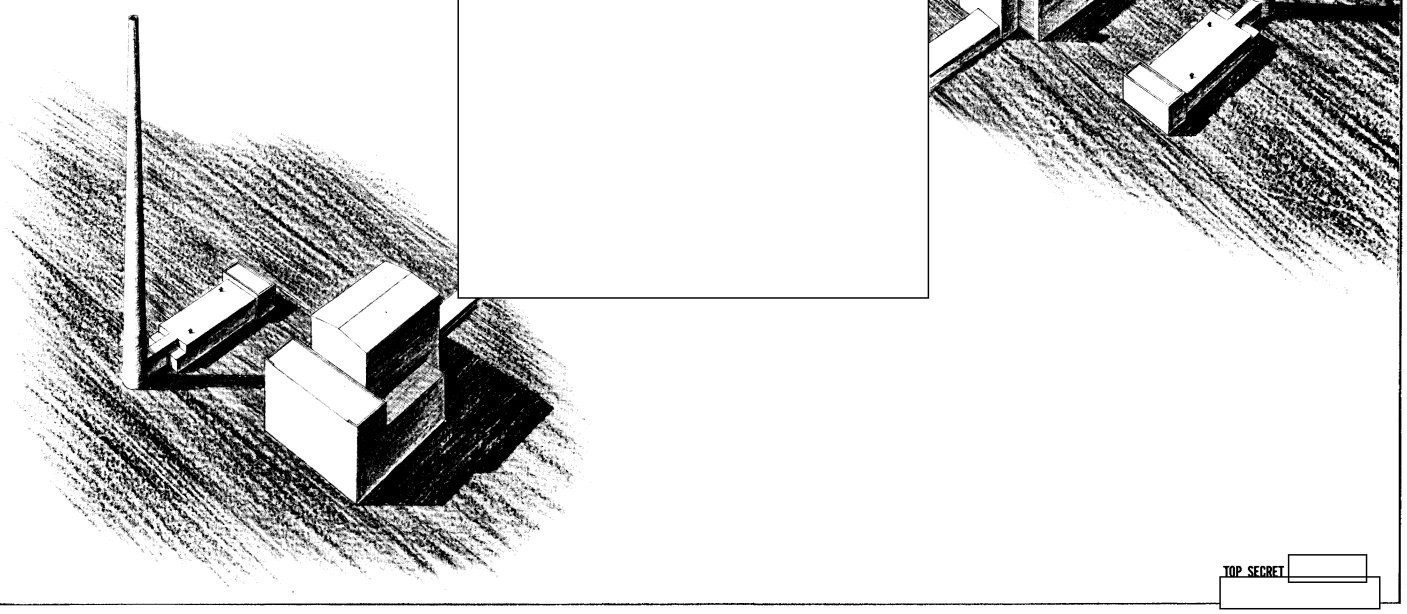
25X1

FIGURE II

REACTOR BUILDING 3, REACTOR AREA I

TOMSK ATOMIC ENERGY COMPLEX, USSR

25X1



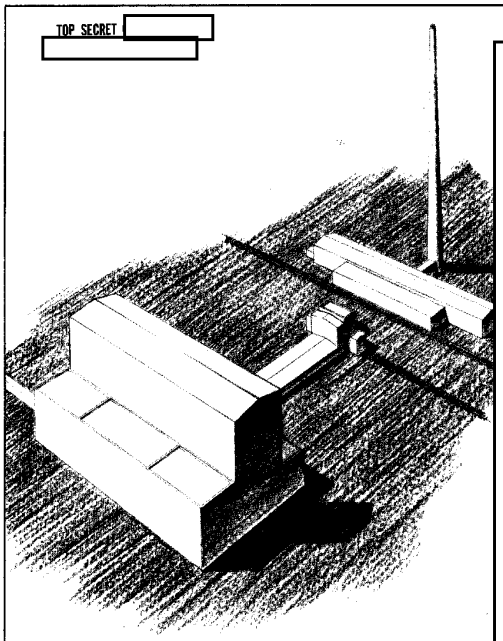
TOP SECRET

25X1
25X1

25X1

25X1

TOP SECRET



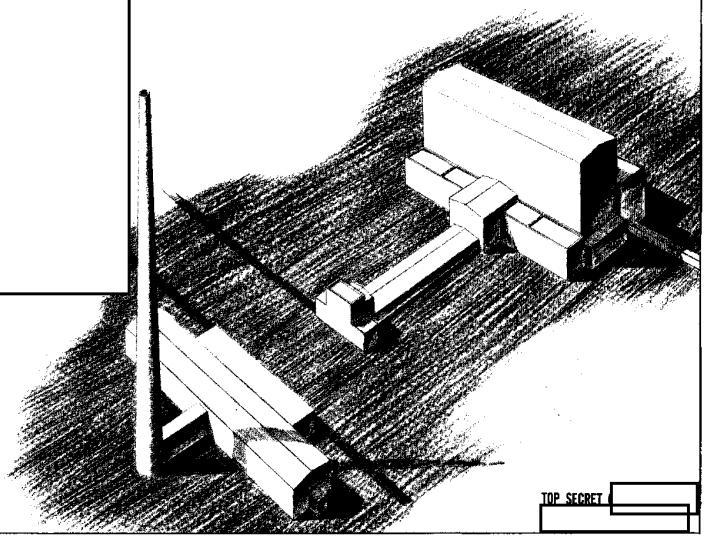


FIGURE 12

CTOR BUILDING, REACTOR AREA II

OMSK ATOMIC ENERGY COMPLEX, USSR

TOP SECRET

25X1

25X1

TOP SECRET

TOP SECRET

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